# SECTION 22 11 19 DOMESTIC WATER PIPING SECIALTIES

**PART 1 GENERAL**

* 1. SUBMITTALS
     1. Product Data:
        1. Submit product data sheets for all products specified in Part 2 of this Section.
  2. QUALITY ASSURANCE
     1. All products specified in this Section that are in contact with domestic water are to be certified lead free.
     2. Acceptable manufacturers: Acceptable manufacturers of products specified in Part 2 are:
        1. **wall hydrants -** MIFAB **I**nc.
        2. **trap seal primers -** MIFAB Inc.
        3. **shock absorbers -** MIFAB Inc.
        4. **water hammer absorbers** - MIFAB Inc.
        5. **backflow preventers -** MIFAB Inc.
        6. **lavatory supply fitting tempering valves** - MIFAB Inc
     3. Substitutions: Refer to Division 01 requirements: [Substitutions are not permitted]. (Substitutions with stated cost savings will be considered and the Consultant’s decision will be final).

# PART 2 PRODUCTS

# EDIT NOTE: Ref. article 2.1 Use for priming from 5 to 35 traps automatically with an electronic time clock actuated primer. Determine and specify electrical connection requirements and ensure that the Electrical Designer is aware of what is required, and where. A dedicated 15 ampere breaker or locked-on breaker for each assembly should be provided as part of the electrical work. Note that the cabinet can be surface or flush mounted so indicated mounting arrangement on the drawings.

* 1. ELECTRONIC TRAP SEAL PRIMERS
     1. MIFAB Inc. Series MI-100. “Buy American” compliant, packaged type, wall mounting, electronic, automatic trap primer manifolds, each UPC lead-free certified, factory tested and certified to ASSE Standard 1044, IAPMO listed, suitable for an operating pressure of from 35 to 80 psi, sized and selected to suit the number of drain traps to be serviced, and designed to supply equally a minimum of 2 ounces of water to each connected drain trap every 24 hours.
     2. Each assembly is to be complete with:

# cabinet: white powder epoxy coated #16 gauge steel [#16 gauge type 304 stainless steel] cabinet suitable for surface or flush wall mounting

# EDIT NOTE: Ref. subparagraphs .2 and .3. Select either a bolt-on cover or an access door.

# cabinet cover: bolt-on steel [Type 304 stainless steel] cover

# access door: hinged, prime coated steel [Type 304 stainless steel] [uninsulated fire rated] door equipped with a paddle latch [cylinder key lock and 3 identified keys] [Allen key lock]

# access door frame: a drywall bead frame

# inlet piping assembly: ¾” diameter NPT copper pipe inlet with brass ball type shut-off valve, a stainless steel, electronic, slow closing solenoid valve, and a BEECO atmospheric vacuum breaker

# discharge manifold: copper discharge manifold with ½” [5/8”] diameter compression type copper tube connections in multiples of 5 (as required) with quantity to suit the number of traps to be primed

# control panel: prewired control panel with 5 ampere circuit braker, test button, 24 hour timer with relay and adjustable delay, and a manual override switch

# electrical connection: 120 volt AC power cord with plug [120 volt AC hard wired connection] [24 volt AC hard wired connection] [24 volt DC battery pack with power cord and convertor plug that plugs into a 120 volt AC receptacle]

# PART 3 EXECUTION

* 1. INSTALLATION OF ELECTRONIC TAP SEAL PRIMERS

1. Provide wall mounting electronic trap seal primers where shown on the drawings, or where required to automatically maintain a water seal in floor drain traps. Unless otherwise specified or indicated on the drawings, locate the primers 48” above the floor.

# EDIT NOTE: Ref. paragraph B. Use only if the primer plugs into a wall mounted receptacle. If the primer is hard wired, delete paragraph B.

1. Plug each primer assembly into an adjacent receptacle.
2. Whether shown on the drawings or not, provide a shut-of valve in water piping connections to electronic trap primers.
3. Test and confirm proper operation of each primer assembly and adjust primer water flow and timing to suit the number of traps served. Refer to the manufacturer’s timer adjustment instructions.
4. Cap all unused manifold connection ports water-tight.

END OF SECTION